Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone

Name of Work : Improvements to roads and drains at Babanna layout colony roads in ward no 12 Shettyhalli, in Shettyhalli sub Division

Job No : 012-18-000050 *Est .Cost Rs. 50.00 Lakhs*

Sl No	Description of Items	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-3. Earthwork excavation by manual means in ordinary soil invoiving in average horizontal throw up to 2m & an average lift upto 1.5m , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3. **P. No. 142/ It No. 19.1/ PWD SR 2016-17**								
a	For drains Babanna layout colony	Cum							
	1st cross road R/s		1	112.00	1.20	1.00	134.40		
	3rd cross road		1	120.00	1.20	1.00	144.00		
	cross road L/s		1	50.00	1.00	0.90	45.00		
			1	125.00	1.20	0.90	135.00		
b	**for road work 1st cross**		1	110.00	5.00	0.25	137.50		
	2nd cross		1	50.00	5.00	0.20	50.00		
	cross road L/s		1	60.00	1.50	0.20	18.00		
			1	20.00	2.20	0.25	11.00		
c	for Cds		2	5.00	1.65	0.90	14.85		
							689.75	175.96	**121368.00**
	Basic Rate	**82.00**							
	add loading & unloading charges	68.00							
	lead for 5 km=5*1.28*2.5	16.00							
	Total	166.00							
	add AW 6%	9.96							
		175.96							
2	KSRB 4-1.3 : **Providing and laying in position plain cement concrete of mix 1:4:8** with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.3 **Page No.12/ Item No. 4.3/ PWD SR 2016-17**								
a	**for Drain**	cum							
	1st cross road R/s		1	112.00	1.20	0.15	20.16		
	3rd cross road		1	120.00	1.20	0.15	21.60		
	cross road L/s		1	50.00	1.00	0.15	7.50		
	cross road L/s		1	125.00	1.20	0.15	22.50		

b	**for road work 1st cross**		1	110.00	5.00	0.15	82.50		
	2nd cross		1	45.00	5.00	0.15	33.75		
	cross road L/s		1	60.00	1.50	0.15	13.50		
			1	20.00	2.20	0.15	6.60		
c	for Cds		2	5.00	1.65	0.15	2.48		
							210.59	5159.02	**1086412.23**
	Basic Rate	4867.00							
	Add A.W 6%	292.02							
	Total	**5159.02**							
3	KSRB 4.2.2 : **Providing and laying in position reinforced cement concrete of design mix M20** with OPC cement @ 320kgs, with with 20mm and down size graded granite metal, coarse aggregate @ 0.69 cum and fine aggregates @ .460cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafairmed -2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings,pedastals,retaining walls, staircase, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1, 4.5 **,P.13/I.4.11/ PWD SR 2016-17**									
a	**for drain bottom**	**Cum**							
	1st cross road R/s		1	112.00	1.10	0.15	18.48		
	3rd cross road		1	120.00	1.10	0.15	19.80		
	cross road L/s		1	50.00	0.90	0.15	6.75		
	cross road L/s		1	125.00	1.10	0.15	20.63		
	For drain side wall			4.07					
	1st cross road R/s		2	112.00	0.15	0.60	20.16		
	3rd cross road		2	120.00	0.15	0.60	21.60		
	cross road L/s		2	50.00	0.15	0.60	9.00		
	cross road L/s		2	125.00	0.15	0.60	22.50		
	for CD bottom		2	5.00	1.50	0.15	2.25		
	wall		4	5.00	0.30	0.60	3.60		
	deck slab		2	5.00	1.20	0.23	2.76		
							147.53	6371.66	**939979.00**
	Basic Rate	6011.00							
	Add A.W 6%	360.66							
	Total	**6371.66**							

4	KSRB 4-6.4 : **Providing and removing centering, shuttering**, strutting,. propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached1 pilasters, buttresses, plinth cilis and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **Page No.15/ Item No. 4.31/ PWD SR 2016-17**								
	1st cross road R/s		1x3	112.00		0.60	201.60		
	3rd cross road		1x3	120.00		0.60	216.00		
	cross road L/s		1x3	50.00		0.60	90.00		
	cross road L/s		1x3	100.00		0.60	180.00		
	for Cds		2x4	5.00		0.70	28.00		
							715.60	310.58	**222251.00**
	Basic Rate	293.00							
	Add A.W 6%	17.58							
	Total	**310.58**							
5	KSRB 4.9.2: **Providing T.M.T steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3, TMT bar**s Fe 500**. **Page No. 17 / Item No. 4.46.2 / PWD SR 2016-17**								
	For drain	Tonnes		138.92	x	60kgs	8334.90		
	For CD's			8.61	x	80kgs	688.80		
				147.53			**9023.70**	kgs	
					say		**9.02**	64243.42	**579713.00**
	Basic Rate	60607.00							
	Add A.W 6%	3636.42							
	Total	**64243.42**							
6	**Providing & laying reinforeced cement precast slabs** of mix CC 1:11/2:3 using 20mm & down size graded Granite metal using HYSD 10mm dia steel @ 100mm c/c both ways & Complete as per specfications.								
	1st cross road R/s	sqm	1	112.00		0.90	100.80		
	3rd cross road		1	125.00		0.90	112.50		
	cross road L/s		1	60.00		0.75	45.00		
	cross road L/s		1	125.00		0.90	112.50		
	Approved Rate of Precast slab	**1680.00**					**370.80**	1680.00	**622944.00**
	For road								

7	**Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement,** thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - **M20** (at 300Kg per cum coarse aggregate @ 0.64cum and fine aggregate @ 0.43cum) PWD SR 2016-17 P 176 It No 22.6.2									
	for road work 1st cross	cum	1	112.00	5.00	0.15	84.00		
	2nd cross		1	50.00	5.00	0.15	37.50		
	cross road L/s		1	60.00	3.00	0.150	27.00		
			1	20.00	2.20	0.150	6.60		
							155.10	5508.82	**854417.98**
	Basic Rate	5197.00							
	Add A.W 6%	311.82							
	Total	**5508.82**							
8	**Vaccum de-watering with vaccum pump** and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power floater, blade and disc etc., with all lad and lift **P. No. 177/ It. No. 22.7/ PWD SR 2016-17.**								
	for road work 1st cross	sqm	1	110.00	5.00		550.00		
	2nd cross		1	50.00	5.00		250.00		
							800.00	95.40	**76320.00**
	Basic Rate	90.00							
	Add A.W 6%	5.40							
	Total	**95.40**							

9	**Sub Total**								4503405.21
10	**Add.KRIDL Charges 11 %**								495374.57
11	**Miscellaneous and unforeseen charges**								1220.22
								Total	5000000.00
(Rupees fifty lakhs only)									

CERTIFICATE

1 The Work spot has been inspected and the work found to be necessary

2 The Estimate is prepared as per the PWD SR 2016-17

3 The Provision made in estimate are adequate and essential

4 This area comes under BBMP limits.

Asst Engineer
Ward No-12

Asst Executive Engineer
Shettyhalli Sub-Division
BBMP

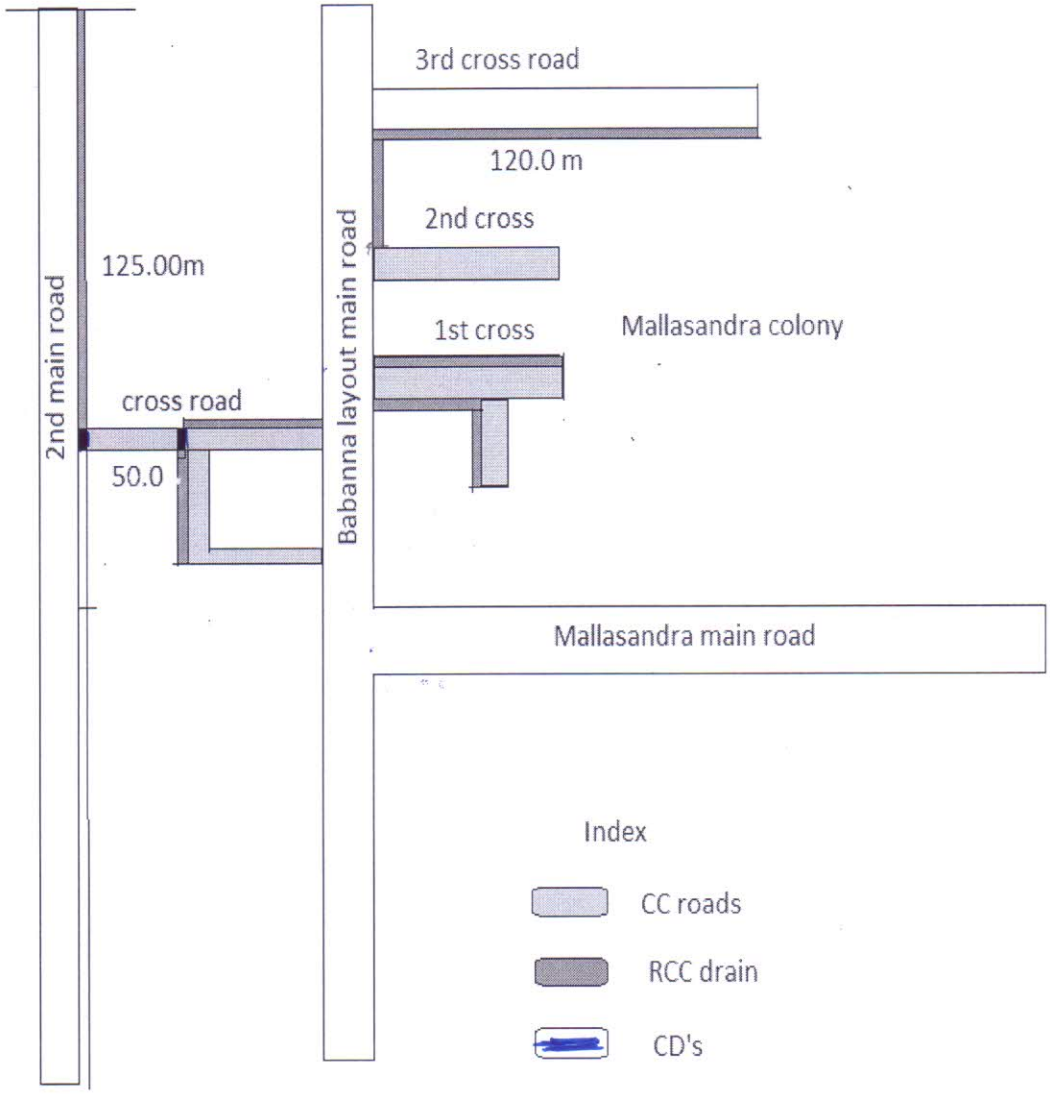
Executive Engineer
Dasarahalli Zone
BBMP

ದಿನಾಂಕ : 19.03.18
ಪತ್ರ ಸಂ. No-EE/DD/AS/902/17-18
ರೂ. R- 50.00 Lakh
ರೂಪಾಯಿ Rupees Fifty Lakh only
ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ
ಕ್ರ -1878
ಕಾರ್ಯಪಾಲಕ ಅಧಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.ದಾಸರಹಳ್ಳಿ ವಿಭಾಗ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

ನಂ. EE/DD/AE/902/17-18 ದಿನಾಂಕ : 21/03/2018.
ರೂ. 50.00 Lakh only/-
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾ
ಮುಖ್ಯ ಅಭಿಯ
ತಾಂತ್ರಿಕ ಸಹಾಯಕರು ಬಿ.ಬಿ.ಎಂ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

Name of Work : Improvements to roads and drains at Babanna layout colony roads in ward no 12 Shettyhalli, in Shettyhalli sub Division

Est Cost : Rs.50.00 Lakhs **P-code P-1878** **Job Code: 012-18-000050.**



Assistant Engineer
Ward No 12

Assistant Executive Engineer
Shettyhalli Sub Division, BBMP